

We Claim:

1. A system for analyzing medical treatment data associated with medical treatments for a plurality of patients to determine a medical treatment guideline, the system comprising:

a memory for storing medical treatment data associated with medical treatments for a plurality of patients, the medical treatment data including a plurality of treatment parameters and a treatment parameter value associated with each treatment parameter for each patient; and

a processor operatively connected to the memory and configured to compile the medical treatment data according to a selected treatment parameter for a plurality of patients and analyze the treatment parameter values for the selected treatment parameter for determining a medical treatment guideline representing acceptable values for the selected treatment parameter.

2. The system of claim 1 wherein the analysis includes providing a distribution of the treatment parameter values for the selected treatment parameter.

3. The system of claim 1 further comprising:
a database for storing preestablished medication treatment guidelines; and
wherein the processor is further configured to compare the treatment parameter values for the selected treatment parameter to the acceptable values for the treatment parameter in the corresponding preestablished medical treatment guideline for the selected parameter.

4. The system of claim 3 wherein the processor is further configured to adjust the acceptable values for the medical treatment parameter in the preestablished medical treatment guideline as a result of the comparison to create an updated medical treatment guideline for the selected treatment parameter.

5. The system of claim 3 wherein the processor is further configured to generate a report of the comparison.

6. The system of claim 1 wherein the processor is further configured to generate a report of the analysis.

7. The system of claim 1 wherein the processor is further configured to determine a medical treatment guideline representing acceptable values for the selected parameter in accordance with the analysis.

8. The system of claim 7 wherein the processor is further configured to integrate the determined medical treatment guideline into a database of preestablished medical treatment guidelines.

9. The system of claim 1 wherein the processor is further configured to determine a medical treatment guideline representing an optimum value for the selected parameter in accordance with the analysis.

10. The system of claim 1 wherein the medical treatment data includes patient physiological data, and the processor is further configured to analyze the treatment parameter values of the selected treatment parameter with respect to the corresponding physiological data for each patient and to determine a medical treatment guideline representing at least one optimum value for the selected treatment parameter.

11. A system for analyzing medical treatment data to determine medical treatment guidelines associated with medication delivered to a patient by a medication administration device, the system comprising:

- a plurality of medication administration devices for delivering medication to a plurality of patients;

- a memory associated with each medication administration device for storing medical treatment data associated with the medication delivered to each patient, the medical treatment data including patient identification data, medication identification data and medication administration device operating parameters;

- a central processor configured to receive medical treatment data from each of the medication administration devices;

a database operatively connected to the central processor for storing preestablished medical treatment guidelines representing acceptable values for the medical administration device operating parameters;

means for communicating medical treatment data from the medication administration device to the central processor;

wherein the processor is configured to compile the medical treatment data according to a selected medication administration device operating parameter for a plurality of patients and analyze the parameter values for the selected medication administration device operating parameter for determining a medical treatment guideline representing acceptable values for the selected parameter.

12. A method for analyzing medical treatment data associated with medical treatments for a plurality of patients to determine a medical treatment guideline, the method comprising:

communicating medical treatment data associated with medical treatments for a plurality of patients, the medical treatment data including a plurality of treatment parameters and a treatment parameter value associated with each treatment parameter for each patient; and

compiling the medical treatment data according to a selected treatment parameter for a plurality of patients; and

analyzing the treatment parameter values for the selected treatment parameter and determining a medical treatment guideline representing acceptable values for the selected treatment parameter.

13. The method of claim 12 wherein analyzing the treatment parameter values includes providing a distribution of the treatment parameter values for the selected treatment parameter.

14. The method of claim 12 further comprising:

storing preestablished medication treatment guidelines in a database; and

comparing the treatment parameter values for the selected treatment parameter to the acceptable values for the treatment parameter in the corresponding preestablished medical treatment guideline for the selected parameter.

15. The method of claim 14 further comprising:
adjusting the acceptable values for the medical treatment parameter in the preestablished medical treatment guideline as a result of the comparison to create an updated medical treatment guideline for the selected treatment parameter.
16. The method of claim 14 further comprising:
generating a report of the comparison.
17. The method of claim 12 further comprising:
generating a report of the analysis.
18. The method of claim 12 further comprising:
determining a medical treatment guideline representing acceptable values for the selected parameter in accordance with the analysis.
19. The method of claim 18 further comprising:
integrating the determined medical treatment guideline into a database of preestablished medical treatment guidelines.
20. The method of claim 12 further comprising:
determining a medical treatment guideline representing an optimum value for the selected parameter in accordance with the analysis.